STYRENE PARK OFFSITE

Document Title:

Process Flow Diagram

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R0	20/02/2024	Issued for Comment	M.Tavakoli	E.Malek	H.Keshmiri

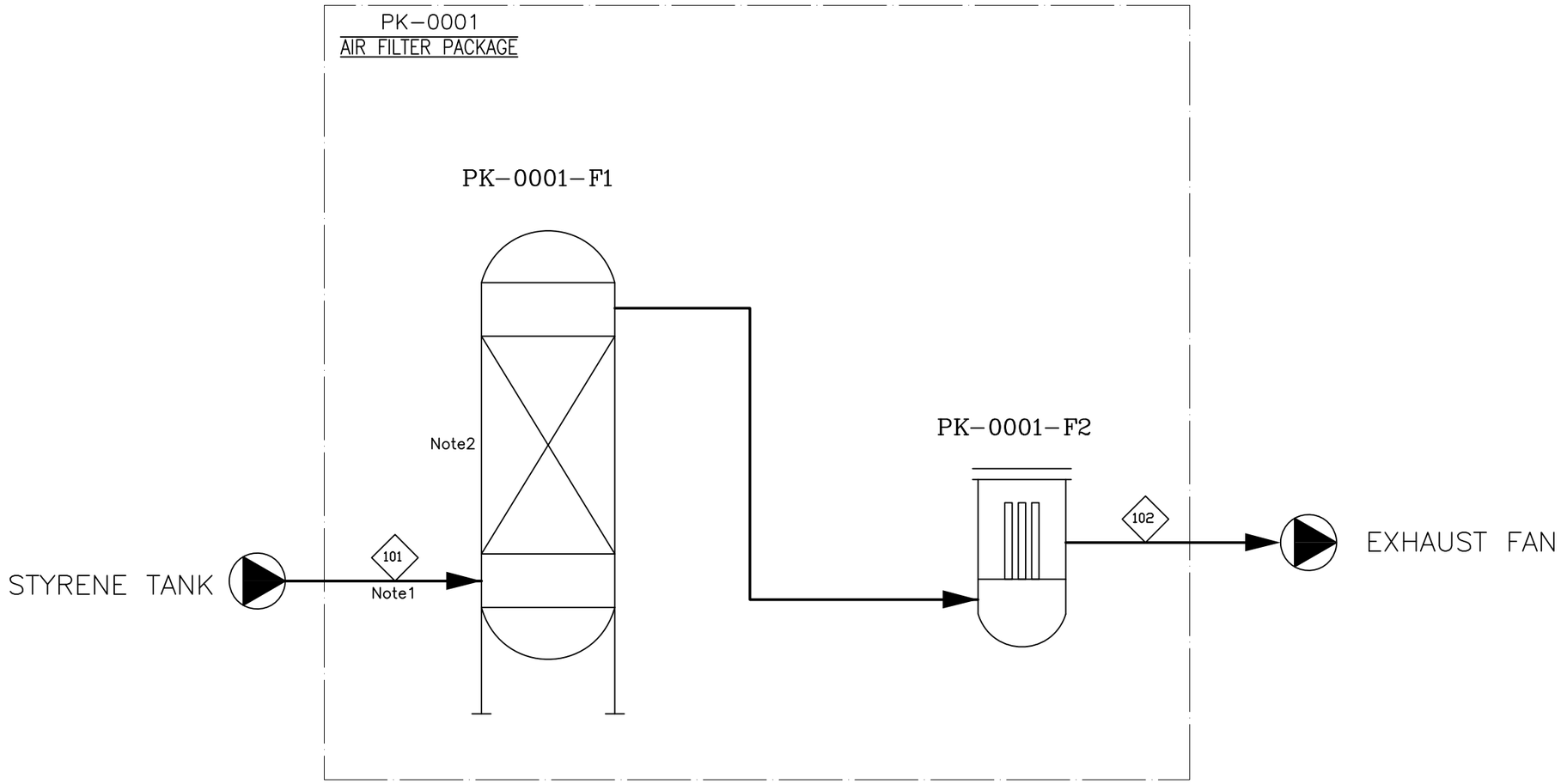
Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6
1	X						
2	X						
3	X						
4	X						
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							

PK–0001–F1
AIR CARBON FILTER
OP. T. = 5/52 C
OP. P. = 0.07 barg

PK–0001–F2
AIR AFTER FILTER
OP. T. = 5/52 C
OP. P. = 0.04 barg

PK–0001
AIR FILTER PACKAGE



STREAM NUMBER		101	102
Service		Air + Styrene	Air+Styrene
Vapor Frac.		1.0000	1.0000
Temperature	C	5/52	5/52
Pressure	barg	0.07	0.00
Normal Flow(Note1)	Nm3/hr	1080	1080
Density	kg/m3	1.107 / 1.295	1.107 / 1.295
Molecular Weight	kmol/kg	29.03	29.03
COMPOSITION	%wt		
Styrene		3.5 g/Nm3	<50 mg/Nm3
Air		balanced	balanced

REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

Carbon Filter

Cartridge Filter

NOTES :

1. Feed stream is intermittent at loading time of upstream styrene storage tank.
2. Non–regenerable Carbon Active.

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
R0	20–Feb–24	Issued for Comment	M.T.	E.M.	H.K.	HRCO

CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق

CONSULTING ENGINEER: BINA EPC CONTRACTOR CO.

VENDOR: ENER TEKNOLOJİ; HAMOON RAH

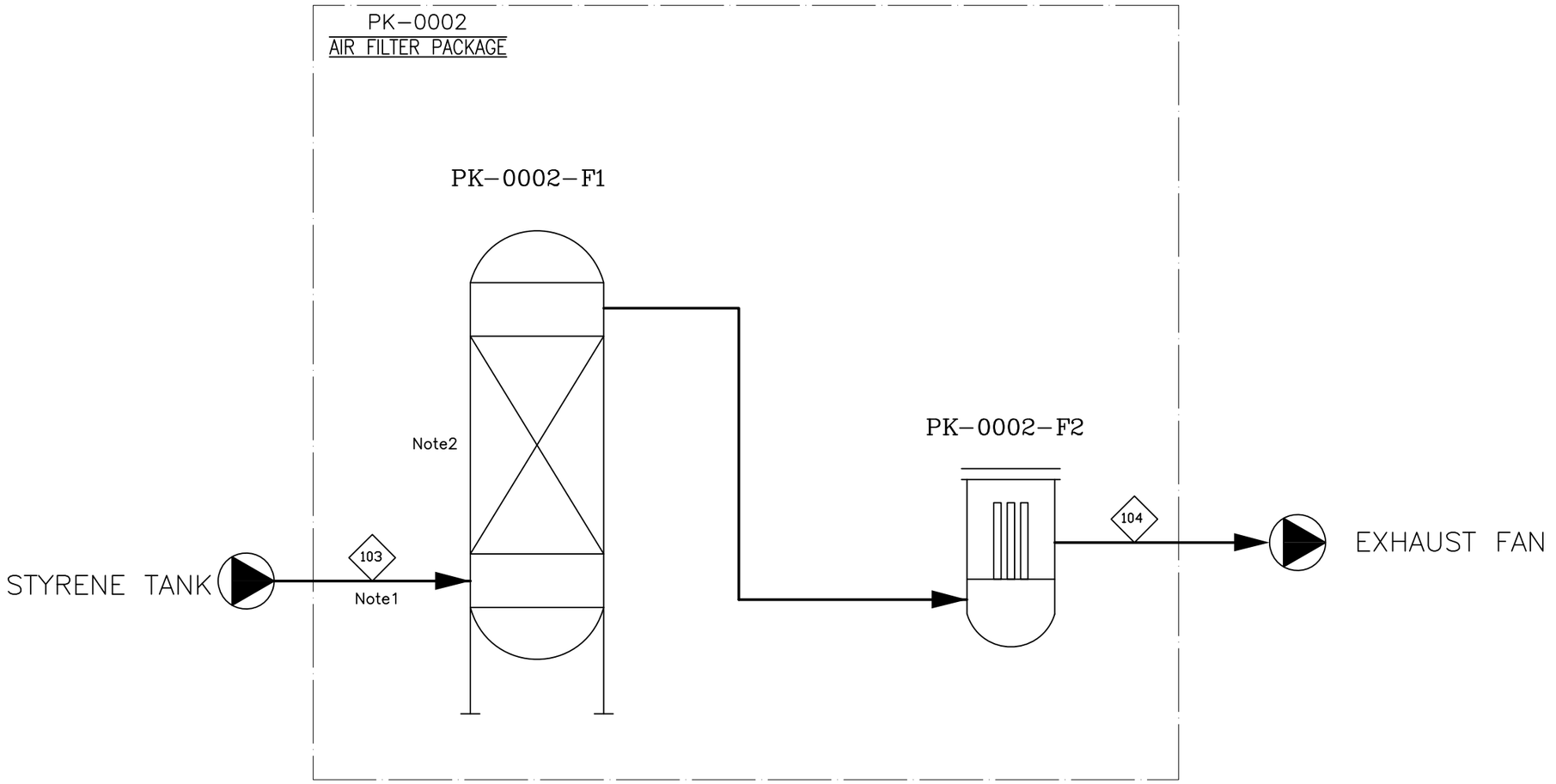
PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE: Process Flow Diagram

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI0127–HRC–VD–PR–PFD–002	R0	A3	NTS	3 of 4

PK–0002–F1
AIR CARBON FILTER
OP. T. = 5/52 C
OP. P. = 0.07 barg

PK–0002–F2
AIR AFTER FILTER
OP. T. = 5/52 C
OP. P. = 0.04 barg



STREAM NUMBER		103	104
Service		Air + Styrene	Air+Styrene
Vapor Frac.		1.0000	1.0000
Temperature	C	5/52	5/52
Pressure	barg	0.07	0.00
Normal Flow(Note1)	Nm3/hr	1080	1080
Density	kg/m3	1.107 / 1.295	1.107 / 1.295
Molecular Weight	kmol/kg	29.03	29.03
COMPOSITION	%wt		
Styrene		3.5 g/Nm3	<50 mg/Nm3
Air		balanced	balanced

REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

Carbon Filter

Cartridge Filter

NOTES :

1. Feed stream is intermittent at loading time of upstream styrene storage tank.
2. Non–regenerable Carbon Active.

KEY PLAN :

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
R0	20–Feb–24	Issued for Comment	M.T.	E.M.	H.K.	HRCO

CLIENT: پتروشیمی توسعه پارک صنعتی گوهر افق

CONSULTING ENGINEER: BINA EPC CONTRACTOR CO.

VENDOR: ENER TEKNOLOJİ / HAMOON RAH

PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE: Process Flow Diagram

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI0127–HRC–VD–PR–PFD–002	R0	A3	NTS	4 of 4